

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 02/00443

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04L 12/56, H04L 29/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 0122656 A2 (TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)), 29 March 2001 (29.03.01), page 7, line 8 - line 13; page 9, line 23 - line 30, figure 2, claim 6 --	1-21
A	WO 0027091 A1 (INTEGRATED DATA COMMUNICATIONS), 11 May 2000 (11.05.00), page 13, line 21 - line 29, abstract --	1-21
A	EP 1039722 A2 (ALCATEL), 27 Sept 2000 (27.09.00), claim 1 --	1-21

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search	Date of mailing of the international search report
16 August 2002	28-08-2002
Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. +46 8 666 02 86	Authorized officer Kristoffer Ogebjer/LR Telephone No. +46 8 782 25 00

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4939726 A (FLAMMER, G.H. ET AL.), 3 July 1990 (03.07.90), claim 1 --	1-21
A	WO 0113602 A1 (AT & T CORP), 22 February 2001 (22.02.01), claims 1-8 -- -----	1-21

INTERNATIONAL SEARCH REPORT

Information on patent family members

06/07/02

International application No.

PCT/FI 02/00443

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 0122656 A2	29/03/01	AU	7512900 A	24/04/01
		BR	0014029 A	14/05/02
		EP	1214832 A	19/06/02
		GB	2354912 A	04/04/01
		GB	9921868 D	00/00/00

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		CA	2321751 A	11/05/00
		CN	1316151 T	03/10/01
		EP	1125415 A	22/08/01
		US	6185569 B	06/02/01
		US	6236652 B	22/05/01
		US	2001015965 A	23/08/01

EP 1039722 A2	27/09/00	DE	19912377 A	21/09/00

US 4939726 A	03/07/90	US	5115433 A	19/05/92

WO 0113602 A1	22/02/01	AU	6777800 A	13/03/01
